

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,993,504 B1
APPLICATION NO. : 09/651301
DATED : January 31, 2006
INVENTOR(S) : Richard W. Friesen et al.

Page 1 of 15

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The Title page showing an illustrative figure, should be deleted and substitute therefor the attached title page.

Delete drawing sheets 1-13, and substitute therefor the drawing sheets, consisting of Figs. 2, 3A, 3B, 3C, 3D, 3E, Fig. 9, Fig. 4, Fig.6, Fig. 7, Fig. 10, Fig. 12-15, as shown on the attached pages.

Column 7, line 29: please delete "\$29.50" and insert --slightly less than \$27.35--.

Column 8, line 14: please delete "300(91)" and insert --300(1)--.

Column 8, lines 18-29: please delete the entire phrase "Thus by viewing all outstanding offer icons 304 and bid icons 300 as they are made on an item, the trader can anticipate the market and quickly adjust his or her trading plans to take advantage of the information. In contrast, in conventional systems, the trader only knows the last highest bid and the last highest offer. In the example of FIG. 3a, the trader would only know the existence of bid 300(9) and offer 304(1). Only the market maker would know the existence of the other bids and offers. Individual traders would therefore be unaware of trends in bidding, and experience greater difficulty in anticipating the market."

Column 8, line 55: please delete "is chosen" and insert --has chosen--.

Column 11, line 20: please delete "412" and insert --417--.

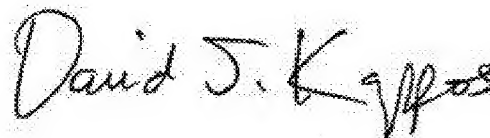
Column 11, line 23: please delete "412" and insert --417--.

Claim 26, col. 26, line 18: please insert --with-- between "associated" and "other."

Claim 36, col. 26, line 58: please delete "with eth current" and insert --with the current--.

Claim 49, col. 27, line 36: please delete "lien" and insert --line--.

Signed and Sealed this
Twenty-eighth Day of June, 2011



David J. Kappos
Director of the United States Patent and Trademark Office

(12) **United States Patent**
Friesen et al.

(10) **Patent No.:** **US 6,993,504 B1**
(45) **Date of Patent:** **Jan. 31, 2006**

(54) **USER INTERFACE FOR SEMI-FUNGIBLE TRADING**

(75) **Inventors:** **Richard W. Friesen**, Fairfax, CA (US);
Mark C. Klizas, San Francisco, CA (US)

(73) **Assignee:** **Trading Technologies International, Inc.**, Chicago, IL (US)

(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 37 days.

(21) **Appl. No.:** **09/651,301**

(22) **Filed:** **Aug. 30, 2000**

Related U.S. Application Data

(63) Continuation-in-part of application No. 09/289,550, filed on Apr. 9, 1999.

(60) Provisional application No. 60/151,468, filed on Aug. 30, 1999.

(51) **Int. Cl.**
G06F 17/60 (2006.01)

(52) **U.S. Cl.** **705/37; 705/36 R**

(58) **Field of Classification Search** **364/408; 705/37, 36 R**

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

| | | | |
|---------------|---------|------------------|---------|
| 4,674,044 A | 6/1987 | Kalmus et al. | 364/408 |
| 4,750,135 A | 6/1988 | Boilen | |
| 4,799,156 A | 1/1989 | Shavit et al. | 364/401 |
| 4,823,265 A * | 4/1989 | Nelson | 364/408 |
| 4,903,201 A | 2/1990 | Wagner | |
| 5,038,284 A | 8/1991 | Kramer | |
| 5,077,665 A | 12/1991 | Silverman et al. | |
| 5,101,353 A | 3/1992 | Lupien et al. | |
| 5,136,501 A | 8/1992 | Silverman et al. | |
| 5,270,922 A | 12/1993 | Higgins | |

| | | | |
|---------------|---------|-----------------------|---------|
| 5,297,031 A | 3/1994 | Gutterman et al. | 364/408 |
| 5,297,032 A | 3/1994 | Trojan et al. | 364/408 |
| 5,347,452 A | 9/1994 | Bay, Jr. | 705/37 |
| 5,375,055 A | 12/1994 | Togher et al. | 364/408 |
| 5,619,631 A | 4/1997 | Schott | |
| 5,675,746 A * | 10/1997 | Marshall | 705/35 |
| 5,689,651 A | 11/1997 | Lozman | 395/237 |
| 5,774,877 A | 6/1998 | Patterson, Jr. et al. | |
| 5,793,301 A | 8/1998 | Patterson, Jr. et al. | |
| 5,797,002 A | 8/1998 | Patterson, Jr. et al. | |

(Continued)

FOREIGN PATENT DOCUMENTS

EP 0 388 162 A2 3/1990

(Continued)

OTHER PUBLICATIONS

Yahoo!Finance—p. 1, 1995.*

(Continued)

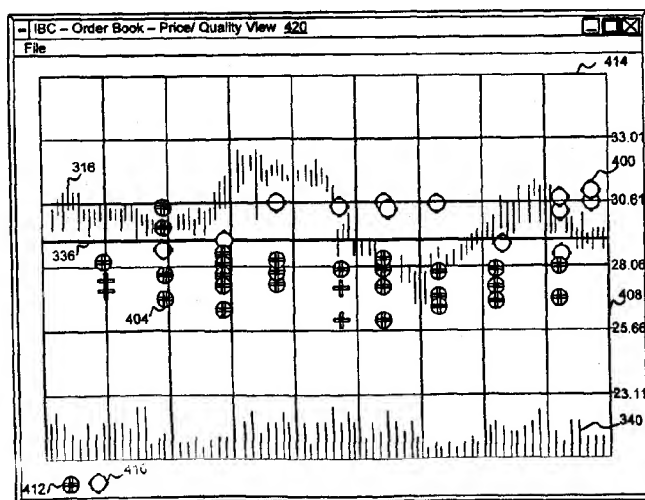
Primary Examiner—Jagdish N Patel

(74) *Attorney, Agent, or Firm*—McDonnell Boehnen Hulbert & Berghoff LLP

(57) **ABSTRACT**

A user interface and method are disclosed for providing trading between a plurality of semi-fungible and non-fungible goods. A plurality of book axes are displayed in a single interface, each book axis representing a market for a particular good. Orders for goods are displayed as marks on the axes to display the relative value of the orders. A value axis is provided that relates the value of the goods from each market to each other. Thus, a single interface provides the means to relate the values of different semi-fungible goods. The value axis may be displayed in units of price, or a custom value designated by a user or pre-defined by the interface. Quantity information is represented in the interface through the display of a dimension of an order icon. Precise information about each order is displayed either in a panel view or a pop-up window.

70 Claims, 15 Drawing Sheets



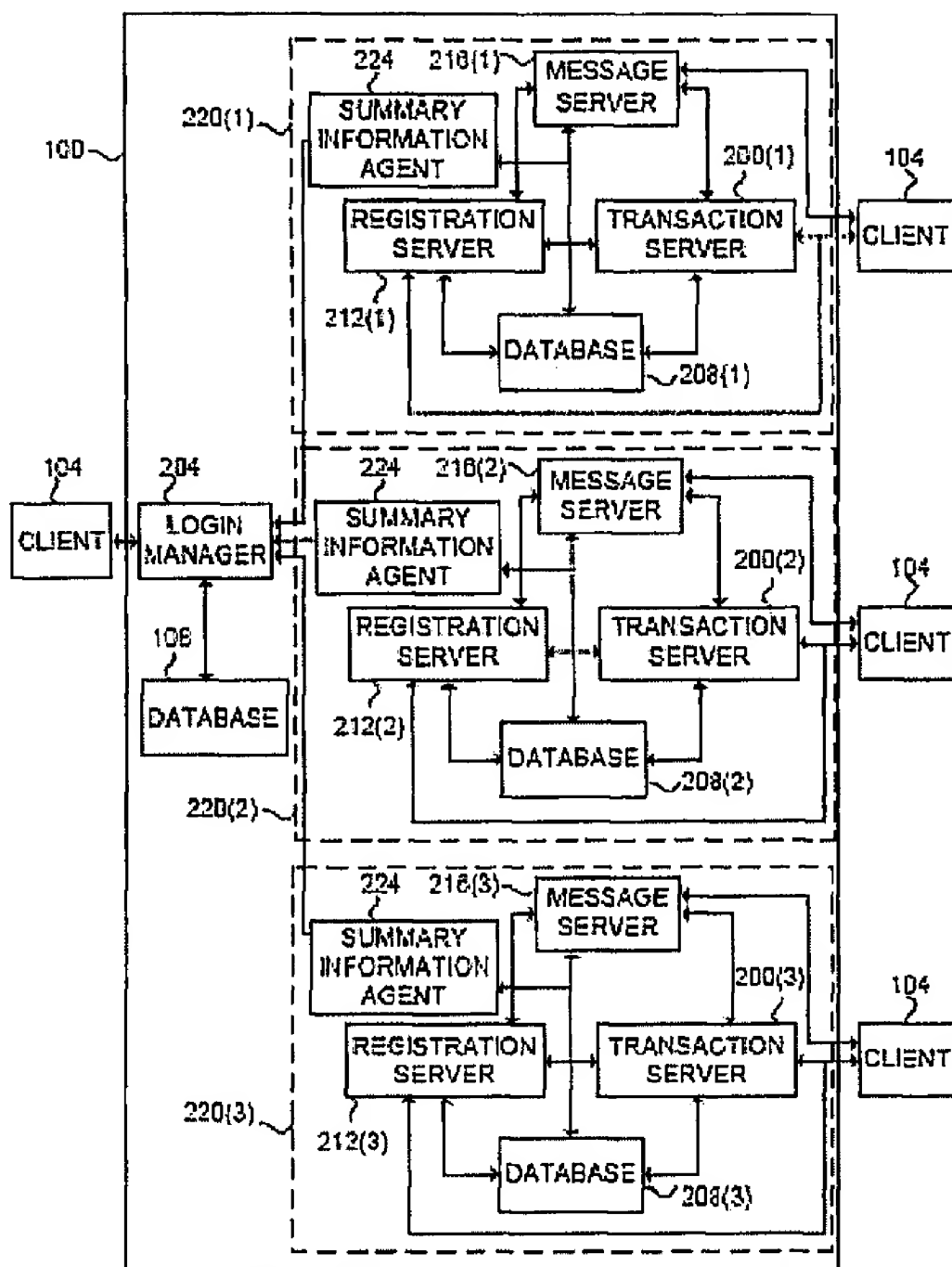


FIG. 2

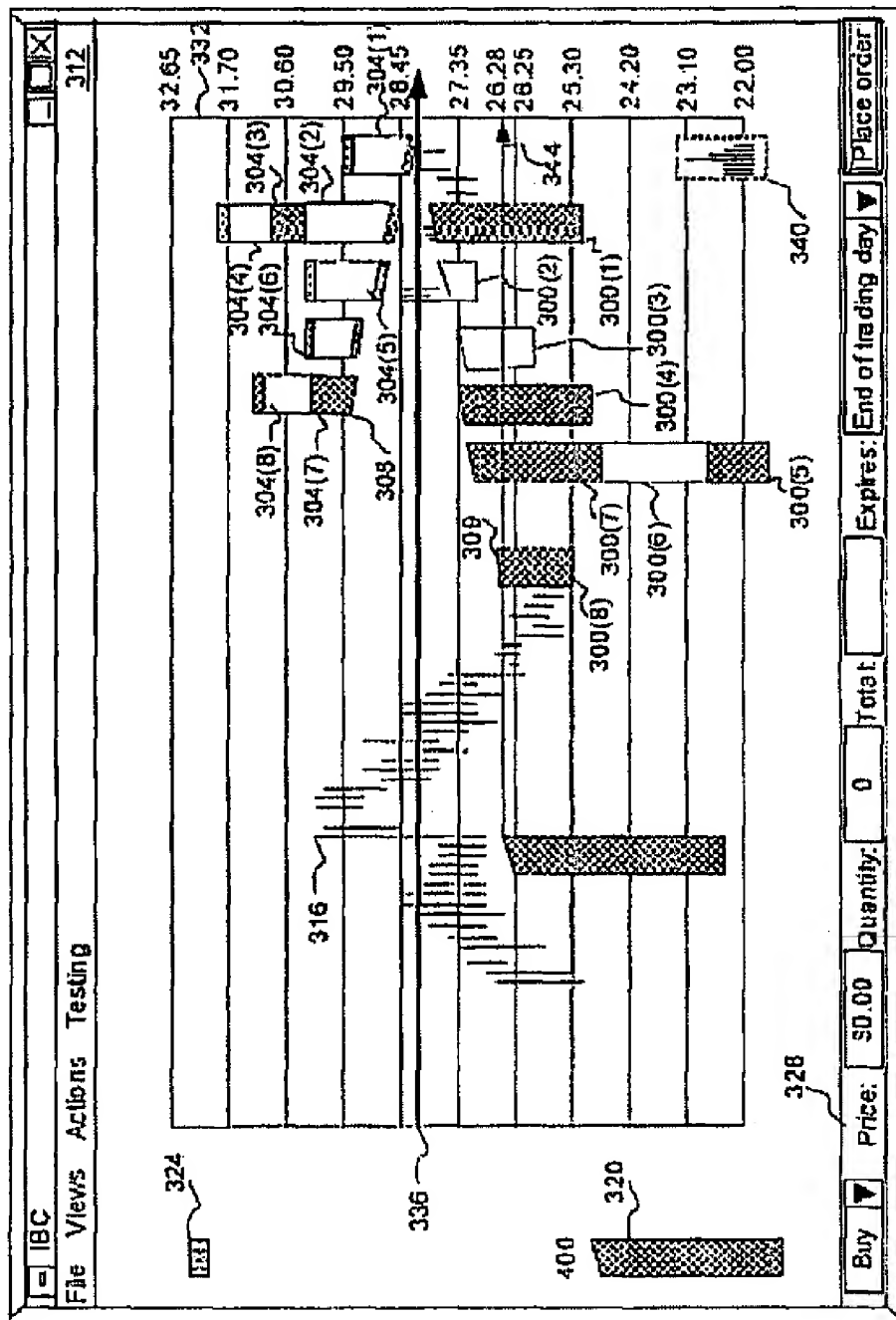
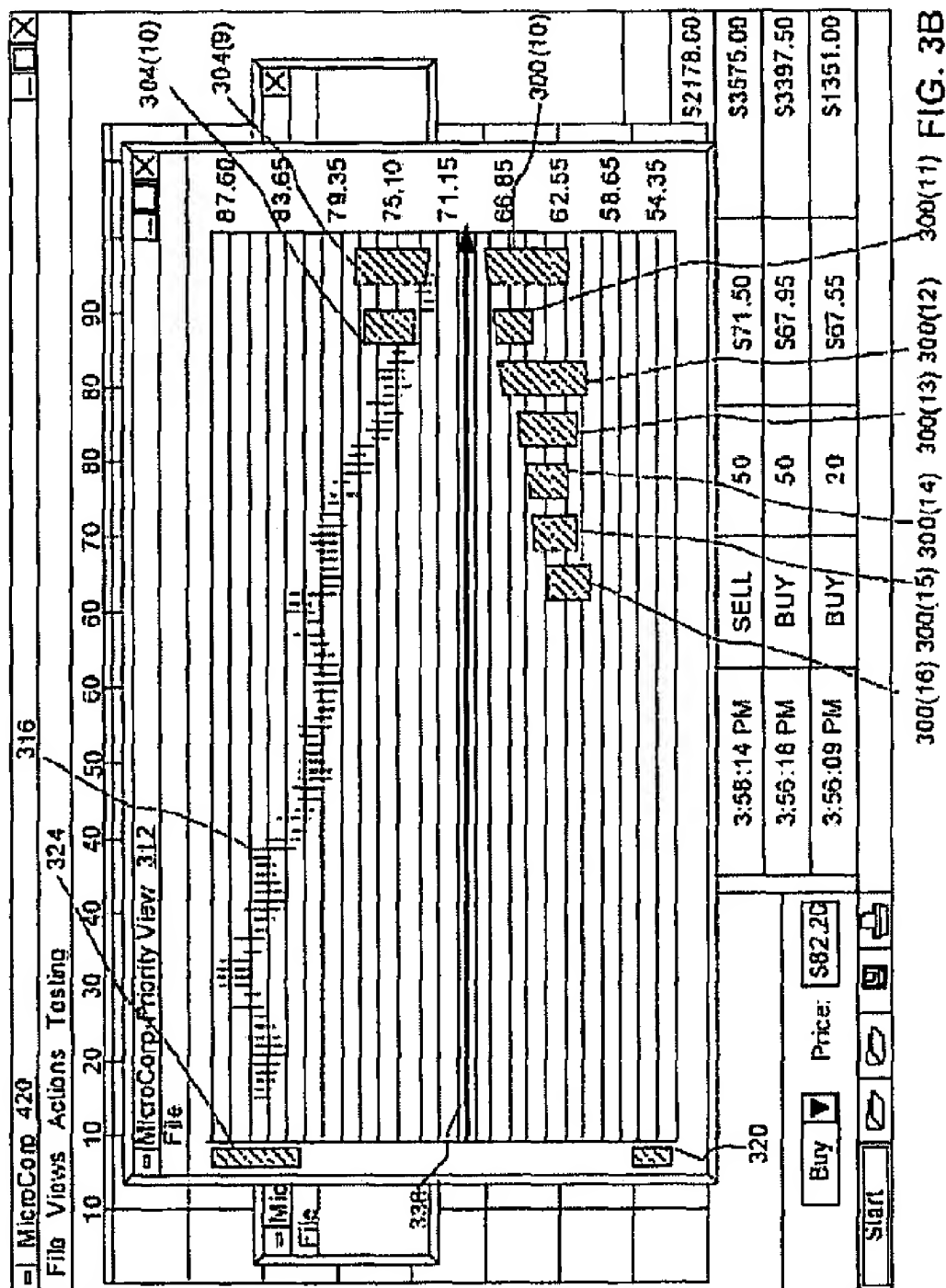


FIG. 3A



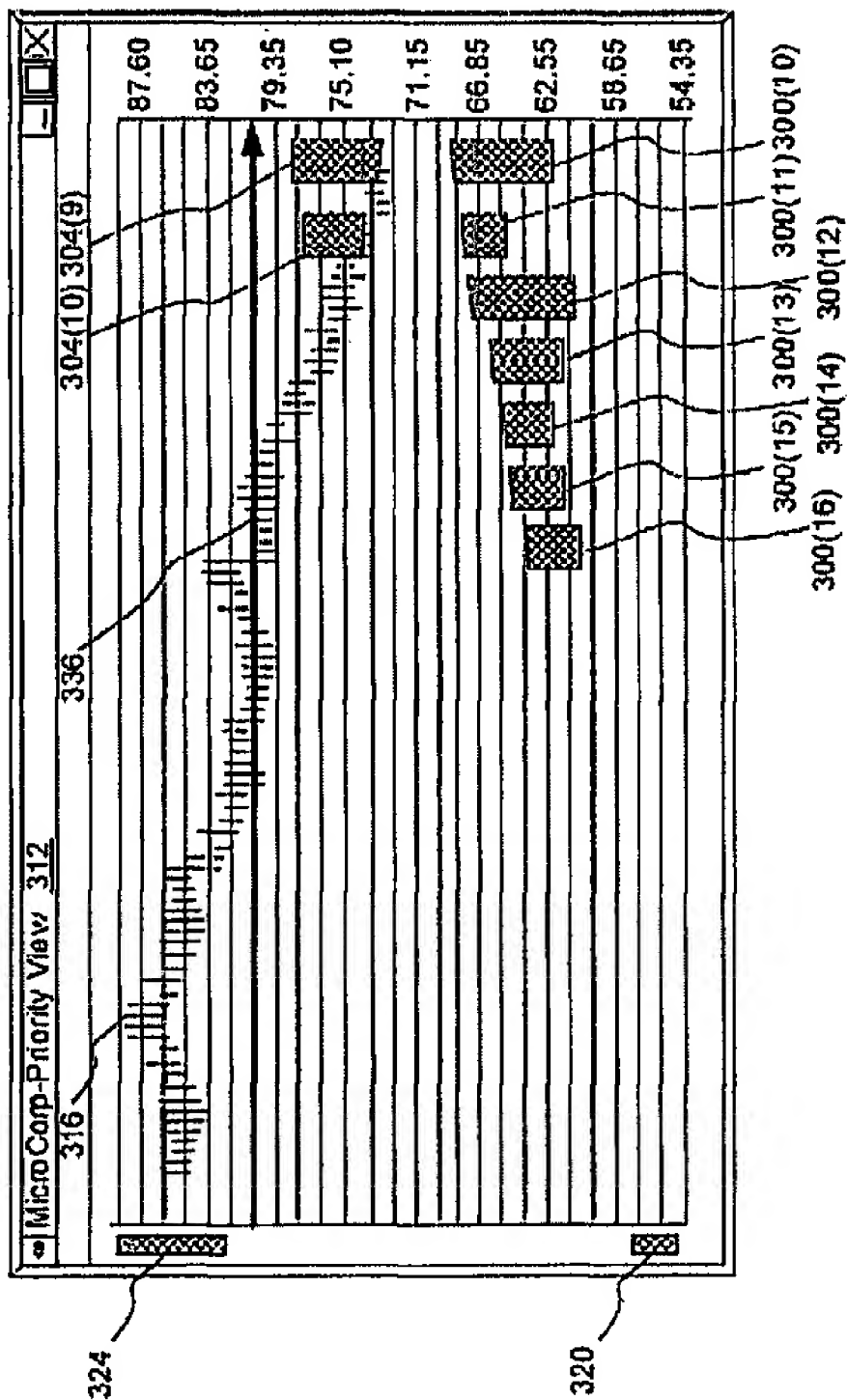


FIG. 3C

BUY

Price:

Quantity:

Value: \$1436.00

Expires: ▼

FIG. 3D

SELL

Price:

Quantity:

Value: \$2505.00

Expires: ▼

FIG. 3E

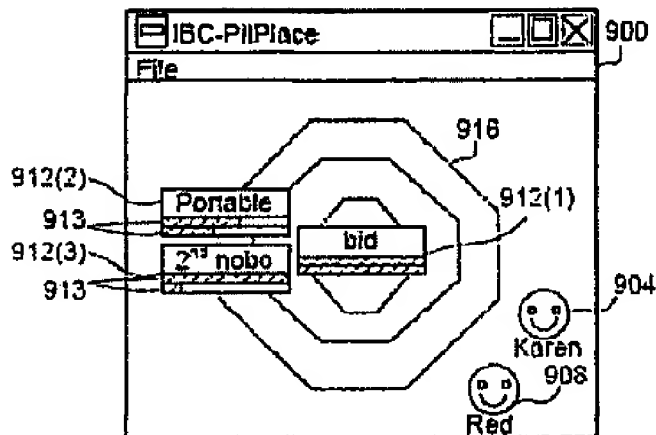


FIG. 9

U.S. Patent

Jan. 31, 2006

Sheet 6 of 13

6,993,504 B1

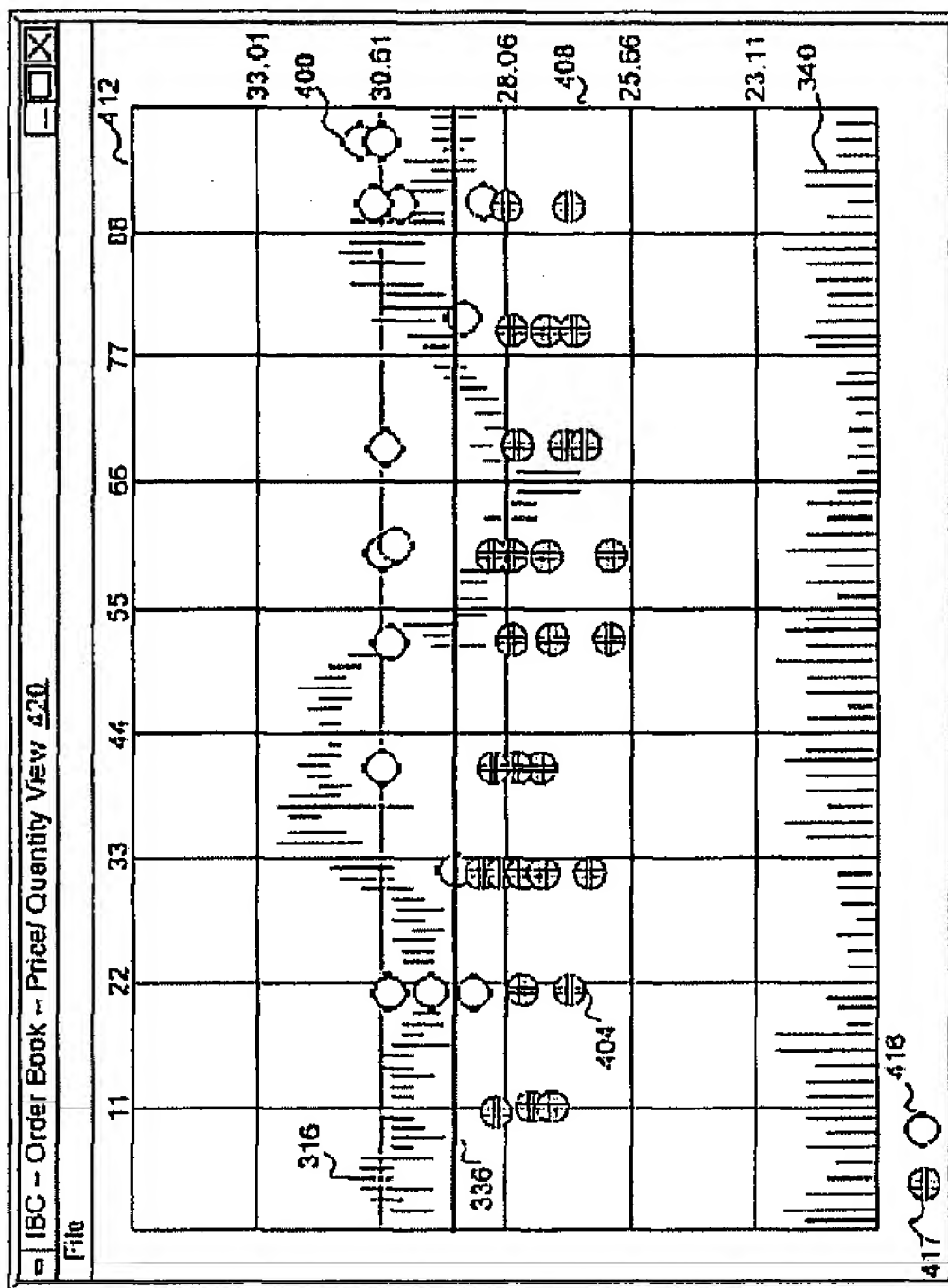


FIG. 4

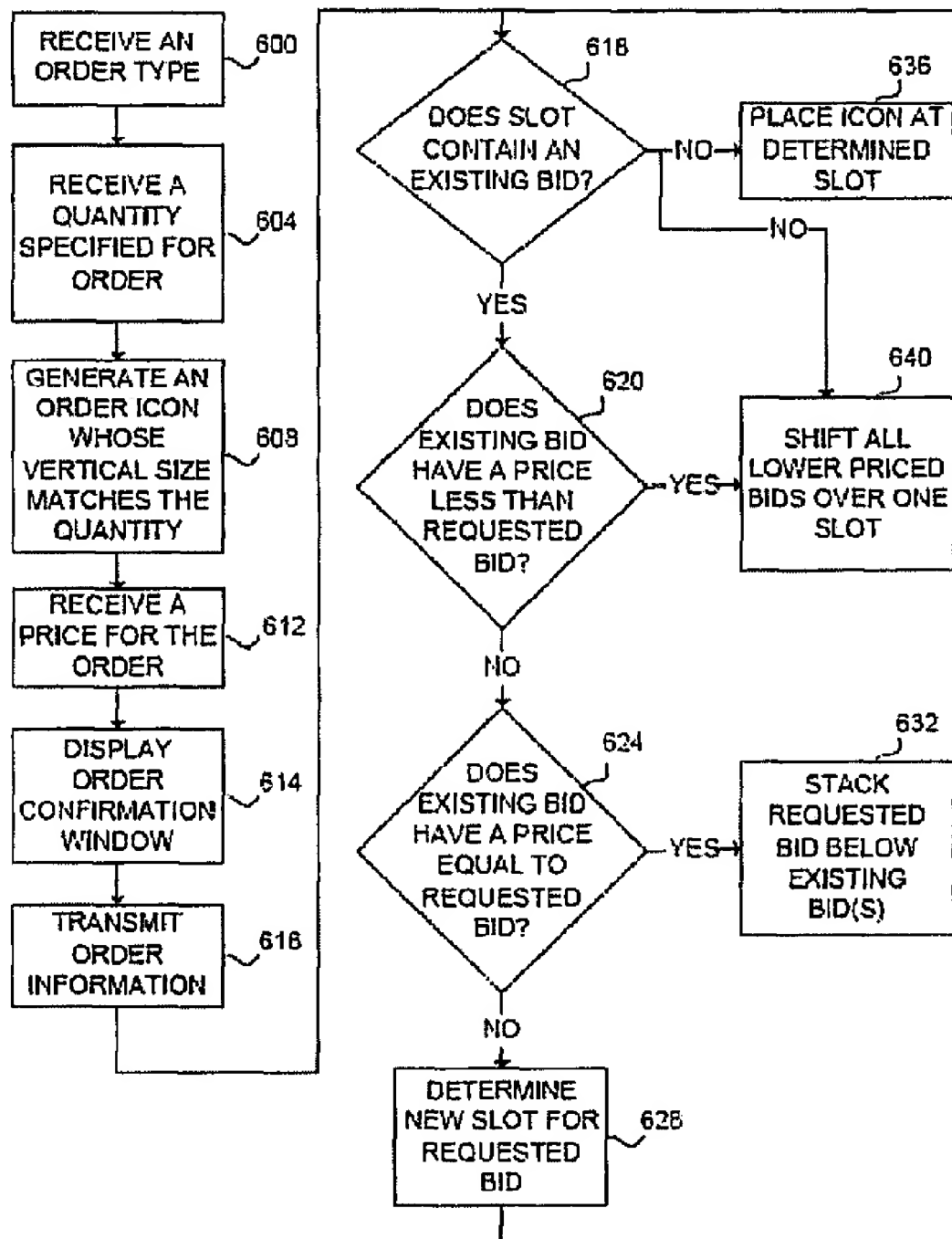


FIG. 6

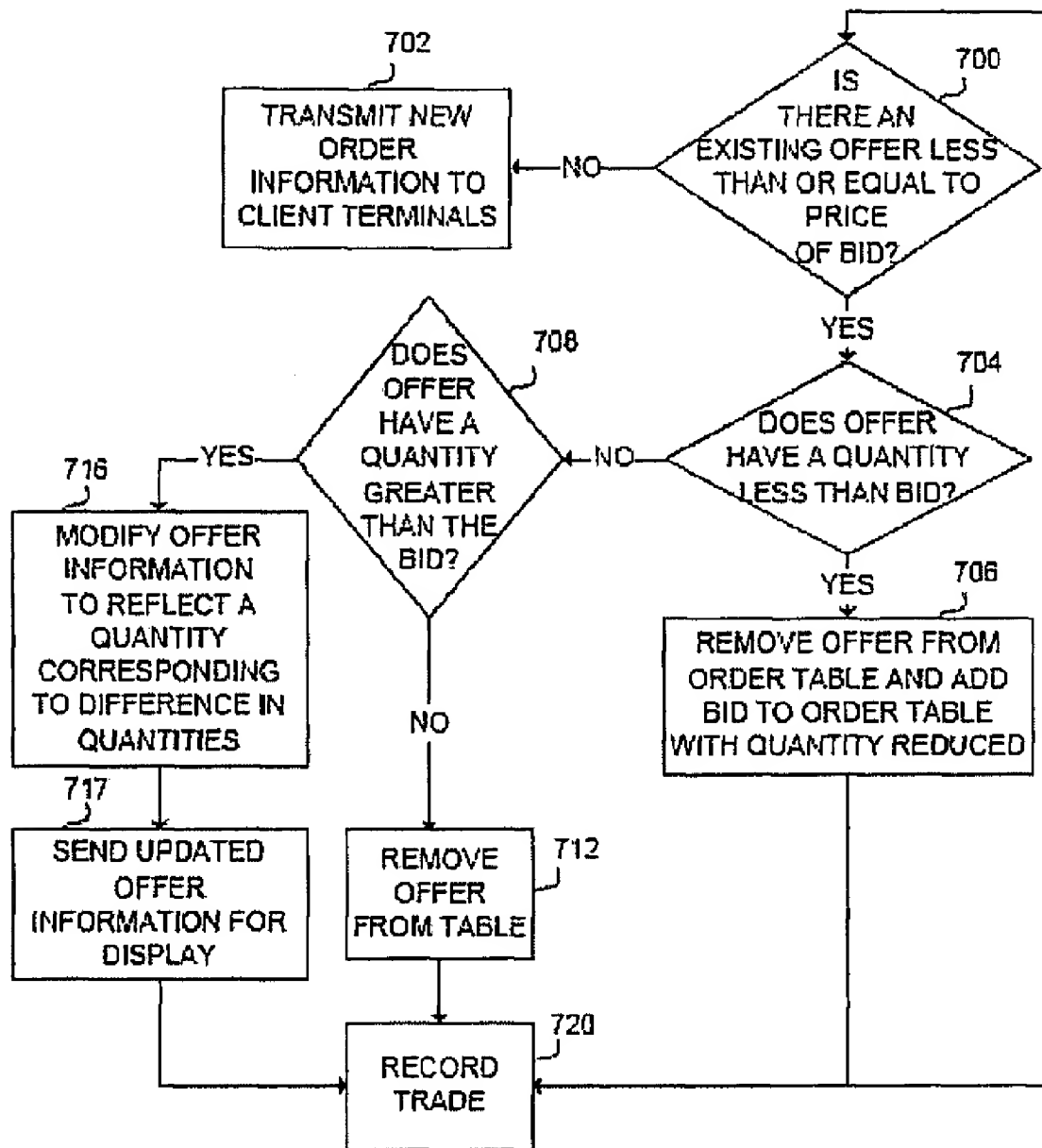


FIG. 7

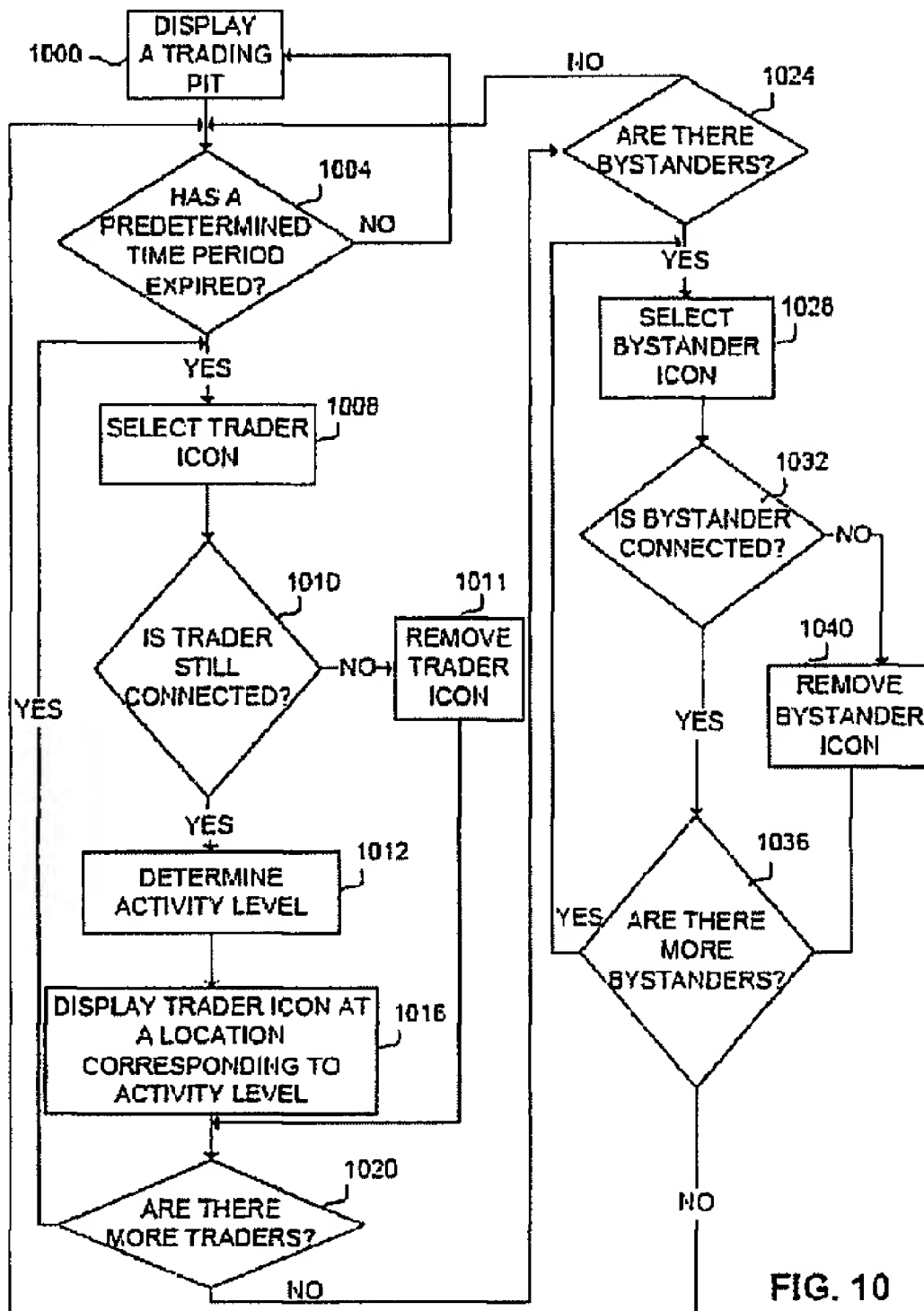


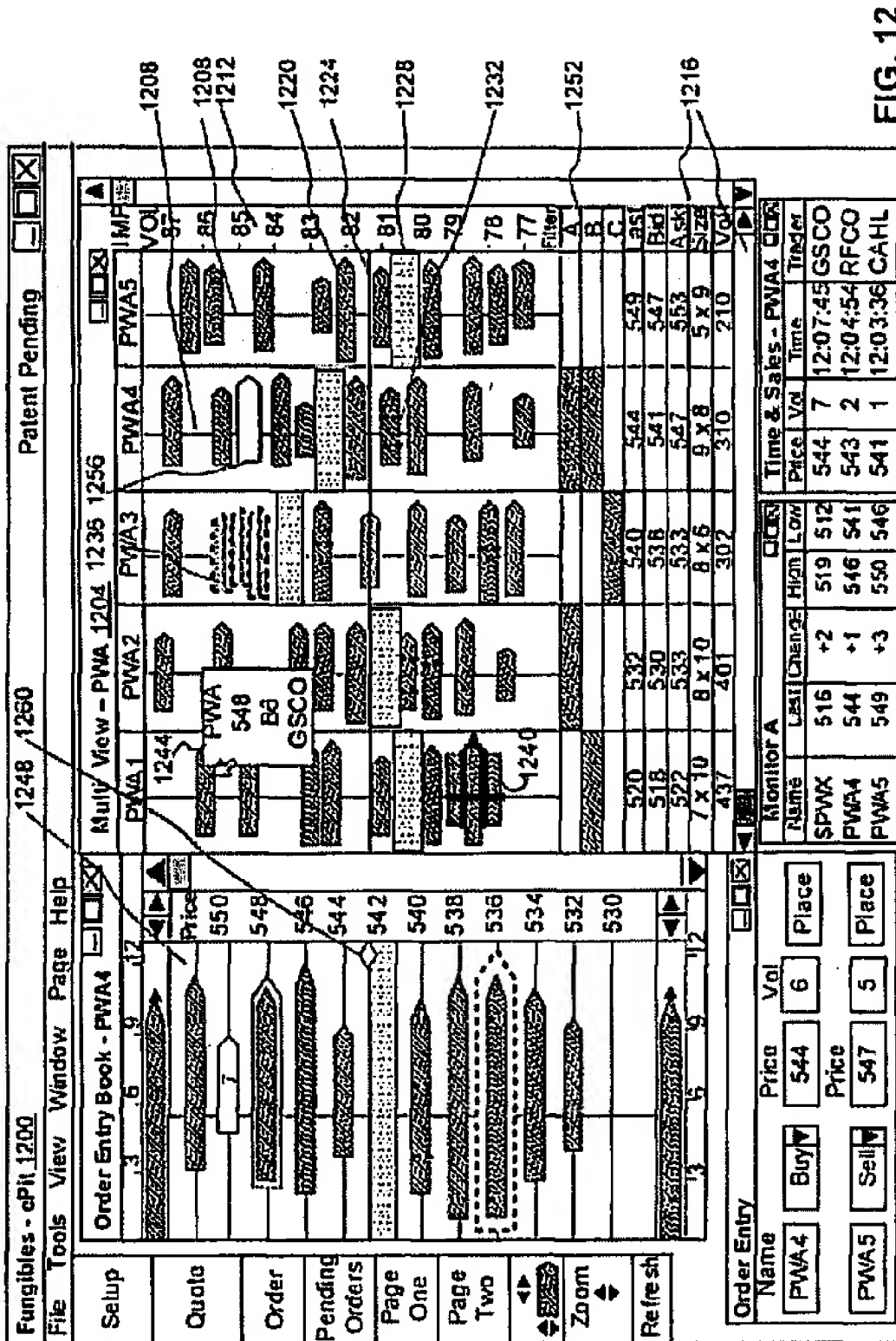
FIG. 10

U.S. Patent

Jan. 31, 2006

Sheet 10 of 13

6,993,504 B1

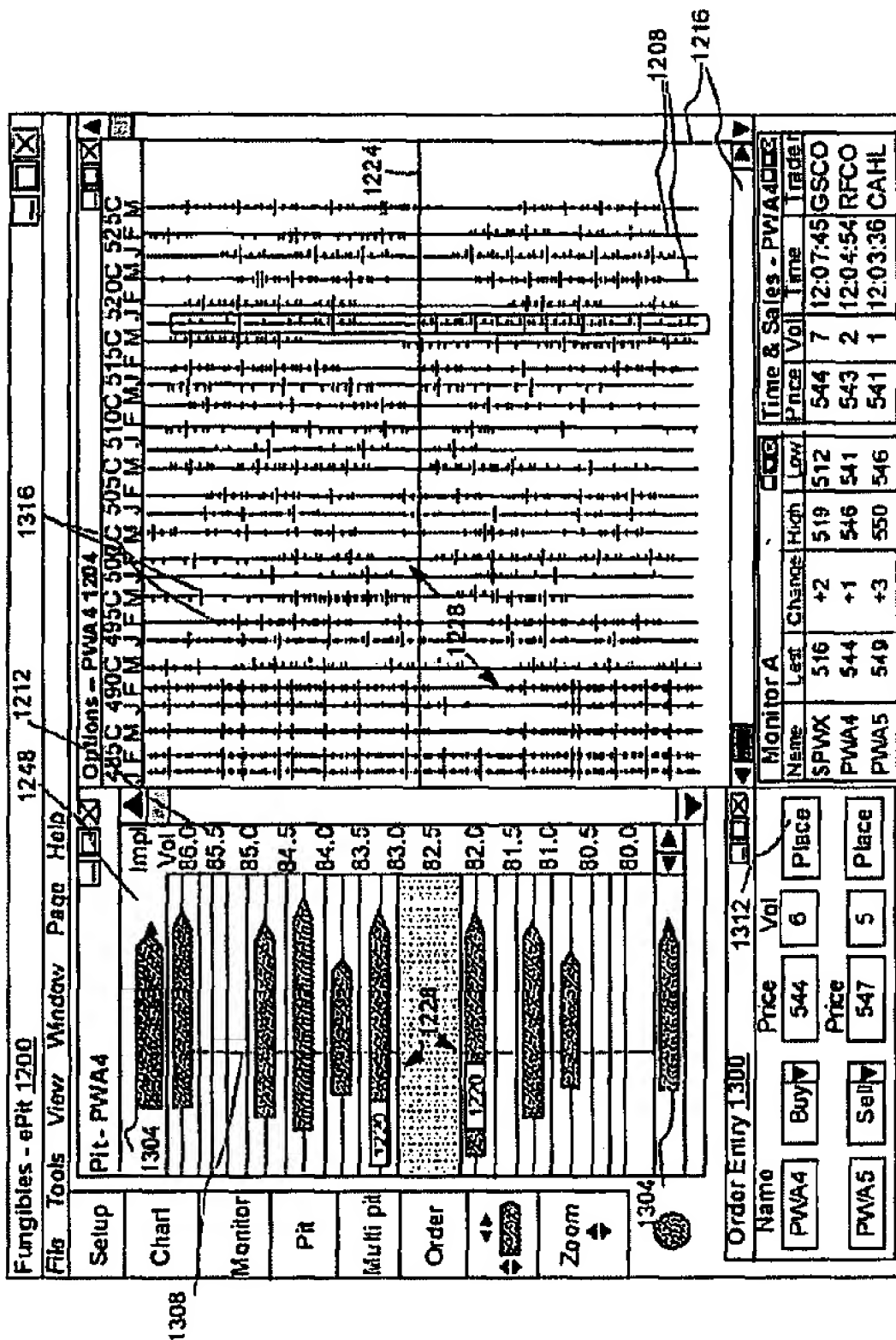


U.S. Patent

Jan. 31, 2006

Sheet 11 of 13

6,993,504 B1



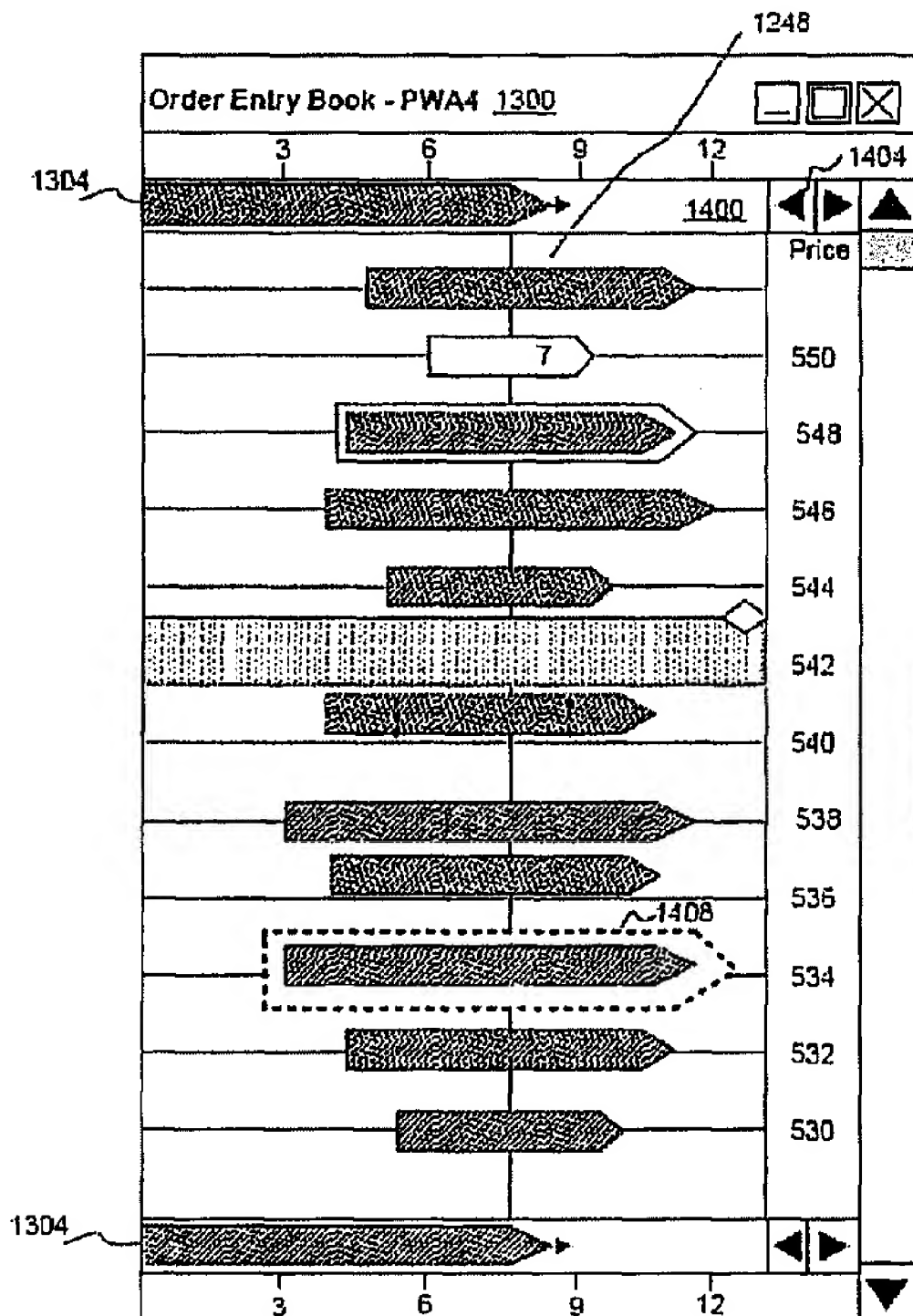
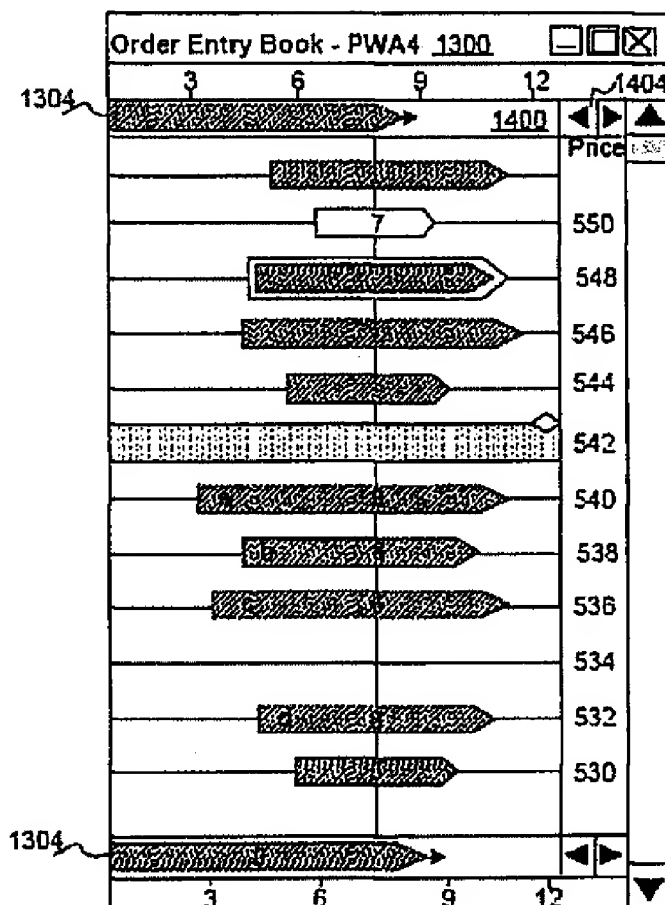


FIG. 14



Summation Window-Bids 1500

| | | | |
|------------------|-----------------|-----|-----------|
| Ave Price 1504 | Ave Volume 1508 | Set | Calculate |
| Highest Bid 1512 | Lowest Bid 1516 | Set | Calculate |

FIG. 15